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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/765,772	01/19/2001	Rodney M. Goodman	06618/581001/CIT-3154	9796	
20985 7:	590 08/28/2002				
	IARDSON, PC		EXAMINER		
4350 LA JOLL SUITE 500	A VILLAGE DRIVE		CHANG, JON	CHANG, JON CARLTON	
SAN DIEGO, CA 92122			ART UNIT	PAPER NUMBER	
			2623	د.	
			DATE MAILED: 08/28/2002	5	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(a)				
	Application No.	Applicant(s)				
Office Action Summary	09/765,772	GOODMAN ET AL.				
Onice Action Summary	Examiner	Art Unit				
The MAILING DATE of this communication on	Jon Chang	2623				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a reply be ti ly within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fron e, cause the application to become ABANDON	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on	·					
2a) This action is FINAL . 2b) ⊠ TI	his action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-23 is/are pending in the application.						
_	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-23</u> is/are rejected.						
	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.					
9) The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on 10 May 2001 is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the price application from the International B * See the attached detailed Office action for a lis 	ureau (PCT Rule 17.2(a)).	-				
14)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
 a) ☐ The translation of the foreign language pr 15)☐ Acknowledgment is made of a claim for domes 	• •					
Attachment(s)	, , ,					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informa	rry (PTO-413) Paper No(s) I Patent Application (PTO-152)				

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Claim Rejections - 35 USC § 112

1. Claims 8-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 8 recites, "said whole hidden handwritten word." Clear antecedent basis for this limitation does not exist within the claim.

Claim 9 depends from claim 8.

Claim Objections

2. Claim 22 is objected to because of the following informalities: in claim 22, "information's" should be corrected. Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

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not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 5,557,689 to Huttenlocher et al. (hereinafter "Huttenlocher").

As to claim 1, Huttenlocher discloses a method of recognizing handwriting, comprising:

obtaining a sample of text (Fig.1B, element 10);

segmenting said sample into separate handwritten words (Fig.1B, element 22; Fig.10); and

attempting to recognize a whole handwritten word without attempting to recognizing any individual letter of the whole handwritten word (column 5, line 65 to line 2).

Huttenlocher does not explicitly show the text is handwritten. However, the Examiner takes Official Notice that handwritten text is well known, and recognition of handwritten text is also well known. It would have been obvious to employ Huttenlocher's method to handwritten words, especially in view of the fact that as background, the patent refers to several prior art methods which operate on handwritten words (e.g., column 4, lines 16-17).

As to claim 2, Huttenlocher further discloses determining a silhouette of the word, and matching said silhouette to one of a plurality of reference silhouettes (Fig.1B, elements 24, 28 and 26; Figs. 18A, 18B).

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As to claim 3, Huttenlocher discloses determining features of the silhouette (column 6, lines 23-26; column 6, lines 41-50).

As to claim 4, Huttenlocher further discloses that the features of the silhouette include high-profile features, and low profile features, and locations of said high-profile features and said low-profile features (Figs. 18A, and 18B).

As to claim 5, Huttenlocher further discloses determining prime features (e.g., each vertical arrow in Fig.18B).

As to claim 6, Huttenlocher further discloses super enclosing said prime features to form hybrid features (e.g., the combination of all the vertical arrows in Fig.18B, or the curves in Fig.18C).

As to claim 7, Huttenlocer further discloses sorting said features by first syllable blends (note Fig.18A).

As to claim 8, Huttenlocher discloses that the attempting comprises categorizing said whole handwritten word according to its overall silhouette (column 5, line 65 to column 6, line 2; Fig.1B, elements 24, 28 and 26).

As to claim 9, Huttenlocher further discloses that the categorizing comprises categorizing positions of features in said handwritten word (in Fig. 18A, positions are determined along the horizontal axis, for example).

As to claims 10-12, Huttenlocher does not mention family names. However, the invention recognizes words, regardless of their use. Since family names are comprised of a word or words, it would have been obvious to utilize Huttenlocher's method to recognize family names.

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As to claim 13, Huttenlocher further discloses that the silhouette information includes information about the presence of high and low parts in the written word and the position of those high and low parts (see Fig.18B).

As to claim 14, Huttenlocher further discloses that the silhouette information includes first syllable blends in the word (Figs.18B-18B).

As to claim 15, Huttenlocher discloses a method comprising:

analysing a sample of handwriting by analysing a whole word of said sample at any one time, said analysing comprising forming information indicative of a silhouette of said whole word, and comparing said information with a database of information about other silhouettes (Fig.1B, elements 24, 28 and 26; column 5, line 65 to column 6, line 2).

As to claim 16, Huttenlocher further discloses that the database of information comprises a database of information obtained from a list of possible words (column 10, lines 32-34).

With regard to claim 18, see remarks above for claim 13.

With regard to claims 19-20, see remarks above for claim 7.

With regard to claim 21, see remarks above for claims 5-6.

With regard to claims 22-23, Huttenlocher discloses that each of a plurality of silhouette information is provided with or assigned a number (column 17, lines 16-17).

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References Cited

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Patent 4,905,296 to Nishihara discloses a system for shape recognition which derives primitive shape elements which are used as a basis for building a description for shape recognition. the geometric arrangement of elements may be used as the basis for describing shape characteristics.

U.S Patent 5,524,066 to Kaplan et al. discloses text recognition by predictive composed shapes.

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Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jon Chang whose telephone number is (703)305-8439. The examiner can normally be reached on M-F 8:00 a.m.-6:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amelia Au can be reached on (703)308-6604. The fax phone numbers for the organization where this application or proceeding is assigned are (703)872-9314 for regular communications and (703)872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)305-4700.

Primary Examiner Art Unit 2623

Jon Chang August 23, 2002